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On Matters of Inventions and Discoveries

DESCRIPTION OF INVENTION

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PERMANENT CONNECTION FOR FLEXIBLE HOSES

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The invention relates to permanent (nondetachable) connections involving the use of a nipple with annular ridges and a bushing that clamps the hose on the nipple.

The shortcoming of the known permanent connections of this type is low strength because of weak clamping of the hoses to the nipple, which does not allow such connections to be used for flexible hoses that operate at high pressures and high tensile stresses.

The distinctive feature of the described permanent connection for flexible hoses consists of the fact that, with the goal of increasing the strength of the connection of the hoses by improving the clamping of the hoses to the nipple, the connection is provided with crimp rings of soft metal that are positioned between the ridges of the nipple over the outer surface of the hoses, over which [rings] a bushing that is crimpable at the spaces between the rings is fitted.

Figure 1 shows the described permanent connection for flexible hoses, general view; Figure 2 shows the nipple; Figure 3 shows the ring; Figure 4 shows the bushing.

Flexible hoses 1 and 2 are seated on nipple 3. Rings 4 of a soft metal, for example, are crimped over the outer surface between the ridges of the nipple. Bushing 5 is crimped over the spaces between the rings.

The ends of flexible hoses that are to be joined are cut square and bushing 5 is slipped onto one of the hoses, and then crimp rings 4 are strung onto the hoses. The hoses are seated onto

nipple 3 until they stop at the central annular ridge. The crimp rings are positioned according to a pattern. Rings 4 and bushing 5 are crimped by means of a crimping tool.

Claim

A permanent connection for flexible hoses using a nipple with annular ridges and a bushing clamping the hoses onto the nipple, which is distinguished by the fact that, with the goal of improving the strength of the connection of the hoses owing to an improvement of the clamping of the latter to the nipple, the connection is provided with clamp rings of soft metal situated between the ridges of the nipple over the outer surface of the hoses, onto which [rings] a bushing is slipped and crimped over the spaces between the rings.

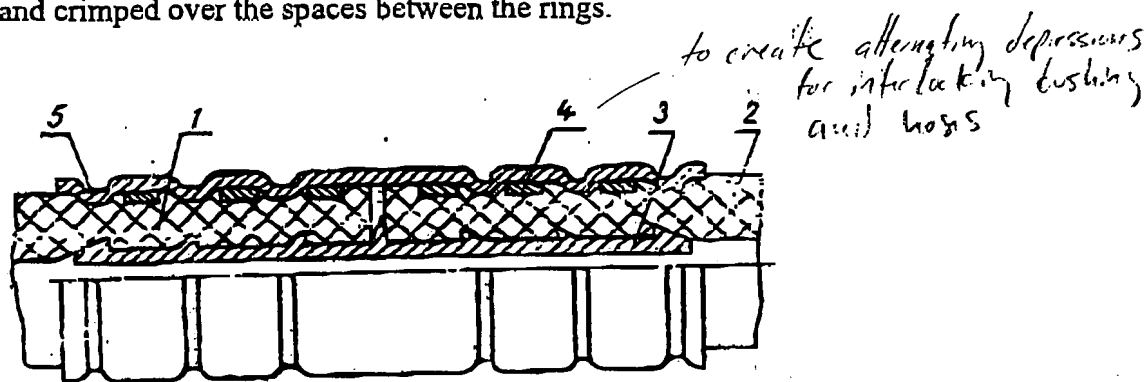


Figure 1

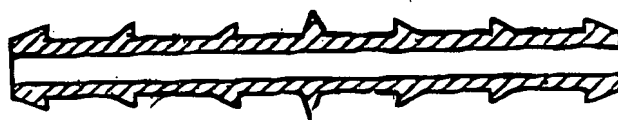


Figure 2



Figure 3

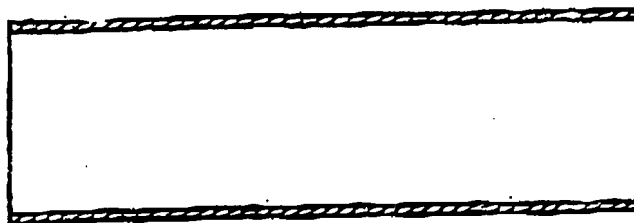


Figure 4